UBDAN 91

WEDNESDAY 19 JULY [redacted]

IN VITRO TOXICOLOGY II (cont)

Abstract

367 (P87) Is BECAM an alternative to the Draize eye irritation test?
T Sutton (Welwyn Garden City, UK)

368 (P88) Comparative cytotoxicities of aminoglycoside antibiotics in the LLC-PK$_1$, Chang, and Vero cell lines
T J Ruczniak & D A Linseman (Kalamazoo, USA)

369 (P89) Skintex™, an *in vitro* method for determining dermal irritation
V C Gordon, C P Kelly & H C Bergman (Palm Springs, USA)

IMMUNOTOXICOLOGY AND ALLERGY (Abstracts 370-400)

Chairmen: J G Vos (Bilthoven, The Netherlands) and J G Kenna (London, UK)

Posters will be displayed in the **Howieson Hall**. The Discussion Group will be held in the **Belmoral Room, Metropole Hotel**

370 (P92) Effect of acrylonitrile on the immunocompetent cells' function and the activity of leucocytes' membrane-dependent enzymes
L Ustinovitch, I Grigurieva, V Ivanov & A Cheredeev (Krasnojarsk & Moscow, USSR)

371 (P93) Effects of chlorobutadiene on the levels of cAMP and cGMP in plasma and splenic lymphocytes of mice
Y Li, H Zhu & C Qiao (Beijing, China)

372 (P94) Lymphocyte proliferative responses and the severity of contact allergic reactions
I Kimber, J A Mitchell & A N Bentley (Macclesfield, UK)

373 (P95) Dendritic cell migration during contact sensitisation
M Cumberbatch, J A Mitchell, S W Peters & I Kimber (Macclesfield, UK)

374 (P96) The local lymph node assay and assessment of contact allergic potential
J Hilton & I Kimber (Macclesfield, UK)

375 (P97) Is it possible to predict allergenic potential? A preliminary assessment
R Edwards, R Parr-Dobrzanski & J M Dewhurst (Epsom, UK)

376 (P98) A guinea pig model of respiratory allergy to small molecules
P A Botham, N J Ratray, S T Walsh, D R Woodcock & P M Hext (Macclesfield, UK)

377 (P99) Supression of anaphylactic shock in sensitised guinea pigs by cytochalasin B
D V Stefani, A V Semenov & G P Kudrina (Moscow, USSR)

378 (P100) Aerosol exposure of guinea pigs to platelet activating factor with the nose-only exposure system induces a concentration-dependent eosinophil accumulation in the airway
K Boubchéur, T Imamura & J Morley (Carouge-Geneva & Basle, Switzerland)

WEDNESDAY

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WEDNESDAY 19 JULY [redacted]

IMMUNOTOXICOLOGY AND ALLERGY (cont)

Abstract

379 (P101) **Toxic effects of chlorobutadiene inhalation on the bone marrow of mice**
Y Li, H Zhu & C Qiao (Beijing, China)

380 (P102) **Toxic effect of chlorobutadiene on the immunosurveillance function of mice**
Y Li, H Zhu & C Qiao (Beijing, China)

381 (P103) **Toxic effects of chlorobutadiene on the macrophages of rat and mouse**
Y Li, H Zhu & C Qiao (Beijing, China)

382 (P104) **Bone marrow toxicity of actinomycin D: significance for antiinflammatory effects in rat adjuvant arthritis. Flow cytometric investigations**
R Hirschelmann, A Martin, R A Weidhase & H Bekemeier (Halle, GDR)

383 (P105) Non-specific activation of antibody formation *in vitro* by heavy metals
M Ohsawa, K Takahashi & F Otsuka (Sagamiko, Japan)

384 (P106) Effect of 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP) on immune response in C57Bl mice
K Ueno, S Ohkawara, Y Enosawa & T Satoh (Chiba, Japan)

385 (P107) Guanethidine-induced sympathectomy in the nude rat
P Thygesen, H P Hougen, H B Christensen, J Rygaard, O Svendsen & P Juul (Copenhagen, Denmark)

386 (P108) *In vivo* induction of pre-B cells in bone marrow of rats administered intravenously with bacterial lipopolysaccharides (LPSs)
H Kawaji & M Nakazawa (Kitakoma-gun, Japan)

387 (P109) Effects of pyridoxine on the disposition and lymphopoenic effects of 2-acetyl-4(5)-tetrahydroxybutyl imidazole in the rat
J A Phillips & A J Paine (London, UK)

388 (P110) Different effects of 2-acetyl-4(5)-tetrahydroxybutyl imidazole on lymphocyte subsets in peripheral blood of germ free and conventional rats
S J P Goblin, J A Phillips & A J Paine (London, UK)

389 (P111) Structural requirements for suppression of cell-mediated immune response by polycyclic aromatic hydrocarbons
M Pallardy, H Lebrec, R House & C Bohuon (Chatenay-Malabry, France & Research Triangle Park, USA)

390 (P112) Immunotoxicological alterations induced by fluoropyrimidine derivatives, cyclosporin A and Ubenimex in rats. II. Histopathological assessment
I Horii, A Kawashima & K Udaka (Kamakura, Japan)

391 (P113) Immunotoxicological alterations induced by fluoropyrimidine derivatives, cyclosporin A and Ubenimex in rats. I. Haematological and immuno-functional assessment
T Inoue, I Horii & K Udaka (Kamakura, Japan)

392 (P114) Immunotoxicity of lindane to guinea-pigs by oral administration
L Q A Caldas, M V C Monteiro & E Rodrigues (Niterói, Brazil)

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WEDNESDAY 19 JULY [redacted]

IMMUNOTOXICOLOGY AND ALLERGY (cont)

Abstract

393 (P115) **Immunoresponsiveness of metal treated animals by using a simplified macrophage migration test**
L Q A Caldas & R Hicks (Niteroi, Brazil & Bradford, UK)

394 (P116) Effect of fatty acid anilides on the immune system of the Swiss mouse: abnormalities in the synthesis of immunoglobulins
R Blasco, P Sanz, I Flores, T Pastor & M Repetto (Seville, Spain)

395 (P117) TCDD stimulation of thymocyte apoptosis *in vivo*
D J McConkey, P Hartzell & S Orrenius (Stockholm, Sweden)

396 (P118) Purification of trifluoroacetylated protein disulphide isomerase from livers of halothane treated rats
J G Kenna, J L Martin, B M Martin & L R Pohl (Bethesda, USA & London, UK)

397 (P119) Methods useful in diagnosis of the immunotoxic disease, halothane hepatitis
K L Hastings, S Schulman, A K Hubbard & A J Gandolfi (Tucson, USA)

398 (P120) The immunotoxic effect of benzene
V N Fedoseeva, A N Shaletsky & L V Aristovskaya (Moscow, USSR)

399 (P121) The outcome of chemotherapy with different nitrosoureas against a syngeneic tumour depends on the mode of action of the drug on the host's anti-tumour immunity
M Nagarkatti & P S Nagarkatti (Blacksburg, USA)

400 (P122) Aldicarb, a carbamate pesticide selectively suppresses macrophage but not autoreactive T cell and NK cell functions
P S Nagarkatti, T N Dean, R S Selvan & M Nagarkatti (Blacksburg, USA)

WEDNESDAY

CLINICAL TOXICOLOGY AND EPIDEMIOLOGY (Abstracts 401-431)

Chairmen: J A Vale (Birmingham, UK) and P B Farmer (Carshalton, UK)

Posters will be displayed in the Hewison Hall. The Discussion Group will be held in the Empress Room, Grand Hotel

401 (P136) Glutathione mediated inhibition of sulphamethoxazole hydroxylamine (SMX-HA) cytotoxicity
A E Cribb, J S Leeder, H-M Dosch & S P Spielberg (Toronto, Canada)

402 (P137) Effects on morbidity and mortality from paracetamol overdose 1979-1987 and the over the counter release in Denmark 1984
H E Poulsen, P Ott, P B Hansen, K Dalhoff & S Loft (Copenhagen, Denmark)

403 (P138) Quantitative analysis of EEG in acute poisoning by benzodiazepines
S I Magalini, C Addario, R Calimici, F Della Corte, R Proietti & A Barelli (Rome, Italy)

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WEDNESDAY 19 JULY [redacted]

CLINICAL TOXICOLOGY AND EPIDEMIOLOGY (cont)

Abstract

404 (P139) Neurophysiologic monitoring in severe central nervous system depression by acute poisoning
A Barelli, M De Giacomo, R Calimici, C Sandrini, M Valente & S I Magalini (Rome, Italy)

405 (P140) Reversal of advanced digitoxin poisoning in rabbits by monoclonal anti-digitoxin Fab fragments
M Urtizberea, A Sabouraud, N Terrien & J M Scherrmann (Paris, France)

406 (P141) Rhodanese encapsulated carrier erythrocytes in antagonising cyanide intoxication
E Cannon, P Leung, D McGuinn, C Yao, R Davis & J Way (CollegeStation, USA)

407 (P142) A rapid screening of stimulants by high performance liquid chromatography
T Nagai, M Sato, Y Miura, T Nagai & S Kamiyama (Sagamihara-shi, Tokyo & Tochigi, Japan)

408 (P143) Kinetics and safety of intravenous 4-methylpyrazole in humans
K E McMartin, D F Dies, C S Sebastian, S K Barron & R L Smith (Shreveport, USA)

409 (P144) The haemodynamics of paraquat poisoning in acute phase
Y Sawada, Y Ohno, K Shigemitsu, I Yamamoto & M Ueyama (Kagoshima, Japan)

410 (P145) Determination of stimulant amines and testosterone by TLC and GLC
N Vural, S Suzen & S Saygi (Ankara, Turkey)

411 (P146) Kinetics of cobalamins in cyanide intoxications treated with hydroxycobalamin
F J Baud, V Toffis, P Barrios, J Muzynski, A Astier & C Bismuth (Paris & Créteil, France)

412 (P147) Clinical use of RO 15-1788; side effects and complications
R Calimici, A Barelli, C Addario, A Arcangeli, S D'Aprano & M De Giacomo (Rome, Italy)

413 (P148) Clinical evaluation of direct haemoperfusion for treatment of acute drug intoxication
T Chishiro & T Tanaka (Osaka, Japan)

414 (P149) A development of new drug screening system "multi-HPLC" using multi-wavelength ultraviolet detector for poly-drug poisoning
S Suzaki, Y Yamamoto, T Otsuka, M Hayashida, M Nihira & T Watanabe (Tokyo, Japan)

415 (P150) Ring hydroxylation in the metabolism of styrene producing *p*-hydroxymandelic acid in urine
K Pekari, V Riihimaki, P Pfaffli, M Sorsa & H Vainio (Helsinki, Finland)

416 (P151) Urinary 1-naphthol as an indicator of exposure to naphthalene and creosote
M Luotamo, P Heikkila, V Riihimaki & M Romo (Helsinki, Finland)

417 (P152) Changes of immune functions of workers exposed to chlorobutadiene
Y Li, H Zhu, C Qiao & J Yu (Beijing, China)

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CLINICAL TOXICOLOGY AND EPIDEMIOLOGY (cont)

Abstract

418 (P153) **Tetrachloroethylene exposure of residents near dry-cleaning shops**
B Gräber, H Kruse & O Wassermann (Kiel, FRG)

419 (P154) **Biomonitoring of 4,4'-methylenebis(2-chloroaniline) in exposed workers: identification and importance of urinary *N*-glucuronide**
J Cocker, A R Boobis, H K Wilson & D Gompertz (London, UK)

420 (P155) Dosimetry of DNA adducts in Chinese hamster ovary cells and C3H10T1/2 mouse embryo fibroblast cells treated with benzo[*a*]pyrene
W P Watson & R J Smith (Sittingbourne, UK)

421 (P156) Antimony metabolism: its relevance for the biological monitoring of workers
J P Buchet, R Lauwerys, J Konings & R Bailly (Brussels, Belgium)

422 (P157) Identification of alkylguanines in human urine by tandem mass spectrometry
J R Cushnir, P B Farmer & J H Lamb (Carshalton, UK)

423 (P158) Biological exposure monitoring for chemical spills and fires
P Edelman (Orange, USA)

424 (P159) Occupational hygienic and biological monitoring of exposure to ethylenebisdithiocarbamate fungicides and ethylenethiourea
P Kurttio, T Vartiainen & K M Savolainen (Kuopio, Finland)

425 (P160) DNA-adducts of polycyclic aromatic hydrocarbons in coke oven workers
K Vuhakangas, S Ovrebö, A Haugen, E Aryanheikki & O Pelkonen (Oulu, Finland & Oslo, Norway)

426 (P161) Human genotoxicity in phosphine-exposed fumigant applicators
V Garry, T Danzl, R Nelson, J Griffith & E Whorton (Minneapolis, USA)

427 (P162) The effects of alcohol drinking on development of occupational trinitrotoluene (TNT) liver damage: an in-plant case-control study
J Li & Q G Jiang (Beijing, China)

428 (P163) Dimethylformamide induced liver and muscle damage among synthetic leather workers: are hepatitis B carriers more susceptible?
J D Wang, M Y Lai, J S Chen, J M Lin, J R Chiang, S J Shiau & W S Chang (Taipei, Taiwan)

429 (P164) Correlation between the urinary excretion of arsenic and the concentration of pyruvic acid in blood in acute arsenic intoxications
C Gotelli, M Viggiano, E Cernichiari & T W Clarkson (Buenos Aires, Argentina & Rochester, USA)

430 (P165) The feasibility of using lead in hair concentration as a monitor of occupational lead exposure
A Pineau (Nantes, France)

431 (P166) Formation of methaemoglobin and metmyoglobin using 8-aminoquinoline derivatives or sodium nitrite and subsequent reaction with cyanide
S I Baskin & R K Steinhaus (Maryland, USA)

WEDNESDAY

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THURSDAY 20 JULY

0915-1145 **SYMPOSIUM 8 Brighton Centre**

Mechanistic studies in developmental and reproductive toxicology

Chairmen: R Bass (Berlin, FRG) and J E Gibson (Midland, USA)

	Abstract	
0915-0945	432	**Male-mediated teratogenesis: fact or fiction** **N A Brown** (London, UK)
0945-1015	433	Interference with hormonal control of rodent reproduction and its implication for human risk assessment **W Elger** (Berlin, FRG)
1015-1045	434	Insertional mutagenesis as a means of studying mammalian embryonic development **W J Scott, J McNeish, S Potter & H-J Merker** (Cincinatti, USA & Berlin, FRG)
1045-1145	435	Genetic, biochemical and toxicological basis of chemically-induced abnormal development **D Neubert, T Platzek, R Meister & I Chahoud** (Berlin, FRG)
1115-1145	436	Retinoids and human reproduction **D T Chen** (Basle, Switzerland)

0915-1145 **DEBATE Brighton Metropole**

Chairmen: G Zbinden (Zurich, Switzerland) and S Gangoli (Carshalton, UK)

"In view of the extent to which the development of toxicology has been restricted by GLP, the guidelines and their practical implementation should be radically simplified"

For the motion: **F J C Roe** (London, UK)

Against the motion: **W H Konemann** (Rijswijk, The Netherlands)

Those wishing to speak in the debate should give their name at the Registration Desk and indicate whether they intend to support or oppose the motion.

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